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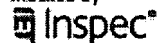
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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Control design of an automated highway system**  
 Horowitz, R.; Varaiya, P.;  
[Proceedings of the IEEE](#)  
 Volume 88, Issue 7, July 2000 Page(s):913 - 925  
 Digital Object Identifier 10.1109/5.871301  
**Summary:** Describes the design of an automated highway system (AHS) developed past ten years in the California PATH program. The AHS is a large, complex system where vehicles are automatically controlled. The design and implementation of the AHS are discussed.  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(380 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 2. **Modeling of driver's collision avoidance maneuver based on controller switching**  
 Jong-Hae Kim; Hayakawa, S.; Suzuki, T.; Hayashi, K.; Okuma, S.; Tsuchida, N.; Kido, S.;  
[Systems, Man and Cybernetics, Part B, IEEE Transactions on](#)  
 Volume 35, Issue 6, Dec. 2005 Page(s):1131 - 1143  
 Digital Object Identifier 10.1109/TSMCB.2005.850168  
**Summary:** This paper presents a modeling strategy of human driving behavior based on a controller switching model focusing on the driver's collision avoidance maneuver. Experimental data are collected by using the three-dimensional (3-D) driving simulator based on the model.  
[AbstractPlus](#) | Full Text: [PDF\(2024 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **On spacing policies for highway vehicle automation**  
 Santhanakrishnan, K.; Rajamani, R.;  
[Intelligent Transportation Systems, IEEE Transactions on](#)  
 Volume 4, Issue 4, Dec. 2003 Page(s):198 - 204  
 Digital Object Identifier 10.1109/TITS.2003.821341  
**Summary:** This paper develops a framework for the design and evaluation of spacing policies for adaptive cruise control. Spacing policies are evaluated from the point of view of stability, traffic flow stability and traffic flow capacity. The standard car-following model is used for the evaluation.  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(418 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. **Longitudinal control with time delay in platooning**  
 Huang, S.; Ren, W.;  
[Control Theory and Applications, IEEE Proceedings-](#)  
 Volume 145, Issue 2, March 1998 Page(s):211 - 217  
**Summary:** We consider the control design problem of vehicle following system with time delay.

delays. An upper bound for the time delays is constructed to guarantee the ind stability. Several conditions are presented to meet the requirements of el.....

[AbstractPlus](#) | Full Text: [PDF\(564 KB\)](#) IET JNL

- ☐ **5. The system and the function of position regulated speed control device**  
 Nishiyama, Y.; Kondoh, A.; Hirado, A.; Akiyama, H.;  
[Vehicle Navigation and Information Systems Conference, 1996. VNIS '96](#)  
 Volume 7, 14-18 Oct. 1996 Page(s):288 - 294  
**Summary:** A Position regulated Speed Control device (PSC) derived from a c speed control device, reduces the tasks of drivers in highway driving and is ex effective in preventing rear-end collisions. The PSC can recognize the prece....  
[AbstractPlus](#) | Full Text: [PDF\(92 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **6. Longitudinal and Lateral Fuzzy Control Systems Design for Intelligent Ve**  
 Hsin-Han Chiang; Li-Shan Ma; Jau-Woei Perng; Bing-Fei Wu; Tsu-Tian Lee;  
[Networking, Sensing and Control, 2006. ICNSC '06. Proceedings of the 2006 I](#)  
[Conference on](#)  
 23-25 April 2006 Page(s):544 - 549  
**Summary:** In this paper, the longitudinal and lateral fuzzy control vehicle syste considered separately due to the decoupling under the assumption of small va steering angle. Firstly, the problem of longitudinal control system design is.....  
[AbstractPlus](#) | Full Text: [PDF\(496 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **7. A velocity control strategy for vehicular collision avoidance system**  
 Mingyuan Bian; Keqiang Li; Dafeng Jin; Xiaomin Lian;  
[Mechatronics and Automation, 2005 IEEE International Conference](#)  
 Volume 4, 29 July-1 Aug. 2005 Page(s):1827 - 1830 Vol. 4  
**Summary:** A novel strategy on vehicular velocity controlling was proposed to r demands of collision avoidance and best following performances, which aims t traffic safety and improve the transportation efficiency. Unlike the strategy use.  
[AbstractPlus](#) | Full Text: [PDF\(156 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **8. Modeling and Recognition of Human Driving Behavior based on Stochasi ARX model**  
 Suzuki, T.; Sekizawa, S.; Inagaki, S.; Hayakawa, S.; Tsuchida, N.; Tsuda, T.; F  
[Decision and Control, 2005 and 2005 European Control Conference. CDC-EC](#)  
[Conference on](#)  
 12-15 Dec. 2005 Page(s):5095 - 5100  
**Summary:** This paper presents a development of the modeling of the human c based on the expression as Stochastic Switched ARX model (SS-ARX) focusir collision avoidance behavior. First, the parameter estimation technique f.....  
[AbstractPlus](#) | Full Text: [PDF\(752 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **9. Longitudinal road gradient estimation using vehicle CAN bus data**  
 Mangan, S.; Wang, J.; Wu, Q.;  
[Systems, Man and Cybernetics, 2003. IEEE International Conference on](#)  
 Volume 3, 5-8 Oct. 2003 Page(s):2336 - 2341 vol.3  
**Summary:** Knowledge of the longitudinal road gradient can be used by Advan Control (ACC) and automatic transmission control systems to provide more ac velocity control. This paper presents a method of estimating the longitudinal ro  
[AbstractPlus](#) | Full Text: [PDF\(499 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **10. Distributed hybrid controls for automated vehicle lane changes**  
 Godbole, D.N.; Sengupta, R.; Hagenmeyer, V.;  
[Decision and Control, 1998. Proceedings of the 37th IEEE Conference on](#)

Volume 3, 16-18 Dec. 1998 Page(s):2639 - 2644 vol.3

**Digital Object Identifier 10.1109/CDC.1998.757851**

**Summary:** We present a methodology for designing safe and efficient lane changes for automated vehicles. Our aim is to obtain a coordinated decentralized control for individual vehicles can execute it with minimal coordination. We characterize the

**AbstractPlus** | Full Text: **PDF**(508 KB)   **IEEE CNF**

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11. **Robust performance for autonomous intelligent cruise control systems**  
Mayr, R.;  
Decision and Control, 1998. Proceedings of the 37th IEEE Conference on  
Volume 1, 16-18 Dec. 1998 Page(s):487 - 492 vol.1  
Digital Object Identifier 10.1109/CDC.1998.760724  
**Summary:** In the last years many efforts for improving safety and comfort in v have been taken. One important aspect of automation components in future tr: the design of autonomous intelligent cruise control systems. Based on fe.....  
AbstractPlus | Full Text: PDF(476 KB) IEEE CNF  
Rights and Permissions
12. **Evaluation of mixed semi-automated/manual traffic**  
Bose, A.; Ioannou, P.;  
Control Applications, 1998. Proceedings of the 1998 IEEE International Confer  
Volume 2, 1-4 Sept. 1998 Page(s):868 - 872 vol.2  
Digital Object Identifier 10.1109/CCA.1998.721582  
**Summary:** The advance in research and development will make the deployme vehicles a reality in the near future. At the initial stage, semi-automated vehicle capability to follow each other automatically in the same lane will coexist wi.....  
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